



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. TAN-2-1495.01US	SERIAL NO. 09/778,474
	APPLICANT Nelson et al.	
	FILING DATE February 7, 2001	GROUP <del>2619</del> 2419

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		<del>3,742,408</del>	<del>06/1973</del>	<del>Dunn</del>			
		<del>4,577,316</del>	<del>03/1986</del>	<del>Schiff</del>			
/ST/	*	4,599,733	07/1986	Gutleber			
		4,642,806	02/1987	Hewitt et al.			
		4,675,863	06/1987	Paneth et al.			
		4,817,089	03/1989	Paneth et al.			
		4,862,453	08/1989	West et al.			
		4,866,709	09/1989	West et al.			
		5,056,109	10/1991	Gilhausen et al.			
		5,103,459 <sup>1</sup>	04/1992	Gilhausen et al.			
		5,130,983	07/1992	Heffner III			
		5,257,283	10/1993	Gilhausen et al.			
		5,267,262	11/1993	Wheatly III			
/ST/	*	5,325,394	06/1994	Bruckert			
		<del>5,330,316</del>	<del>08/1994</del>	<del>Diepstraten</del>			
		<del>5,422,887</del>	<del>06/1995</del>	<del>Diepstraten et al.</del>			
		<del>5,446,727</del>	<del>08/1995</del>	<del>Bruckert et al.</del>			
/ST/	*	5,490,136	02/1996	Sereno et al.			
/ST/	*	5,537,397	07/1996	Abramson			
		5,586,119	12/1996	Scribano et al.			
		5,604,730	12/1997	Tiedemann Jr.			
		5,652,764	07/1997	Kanzaki et al.			
		5,657,326	06/1997	Burns et al.			
		<del>5,657,358</del>	<del>08/1997</del>	<del>Paneth et al.</del>			
		5,684,794	11/1997	Lopez et al.			

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1495.01US</p>	<p>SERIAL NO. 09/778,474</p>
	<p>APPLICANT Nelson et al.</p>	
	<p>FILING DATE February 7, 2001</p>	<p>GROUP <del>2019</del> 2419</p>

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,689,502	11/1997	Scott			
/ST/	*	5,712,869	01/1998	Lee et al.			
		5,726,981	03/1998	Ylittero et al.			
		5,745,484	04/1998	Scott			
		5,758,288	05/1998	Dunn et al.			
		5,802,046	09/1998	Scott			
		5,805,994	09/1998	Perrault et al.			
		5,828,662	10/1998	Jalali et al.			
		5,867,527	02/1999	Ziv et al.			
		5,892,774	04/1999	Zehavi et al.			
		5,893,035	04/1999	Chen			
/ST/	*	5,926,500	07/1999	Odenwalder			
		5,933,781	08/1999	Willenegger et al.			
/ST/	*	5,949,814	09/1999	Odenwalder et al.			
		5,959,980	09/1999	Scott			
		5,960,361	09/1999	Chen			
		5,988,760	11/1999	Chen			
		5,991,284	11/1999	Willenegger et al.			
		6,049,538	04/2000	Scott			
		6,058,338	05/2000	Agashe et al.			
		6,075,974	06/2000	Saints et al.			
		6,094,421	07/2000	Scott			
		6,094,576	07/2000	Hakkinen et al.			
		6,097,972	08/2000	Saints et al.			
		6,101,179	08/2000	Soliman			
		6,118,767	09/2000	Shen et al.			

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. TAN-2-1495.01US	SERIAL NO. 09/778,474
	APPLICANT Nelson et al.	
	FILING DATE February 7, 2001	GROUP <del>2419</del> 2419

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		<del>6,157,610</del>	<del>12/2000</del>	<del>Whitchhead</del>			
		<del>6,188,978</del>	<del>02/2001</del>	<del>Prescott</del>			
/ST/	*	6,188,903	02/2001	Gardner et al.			
		<del>6,201,900</del>	<del>03/2001</del>	<del>Pirino et al.</del>			
		<del>6,208,871</del>	<del>03/2001</del>	<del>Hall et al.</del>			
		<del>6,212,220</del>	<del>04/2001</del>	<del>Proctor Jr.</del>			
/ST/	*	6,222,873	04/2001	Bang et al.			
		6,246,673	06/2001	Tiedemann Jr. et al.			
/ST/	*	6,246,715	06/2001	Park et al.			
		6,263,013	07/2001	Hendrickson			
		6,269,075	07/2001	Tran			
		6,269,088	07/2001	Masui et al.			
		6,272,354	08/2001	Saaro			
		6,275,478	08/2001	Tiedemann Jr.			
		6,301,291	10/2001	Rouphael et al.			
		6,332,008	12/2001	Giallorenzi et al.			
		6,353,645	03/2002	Solve et al.			
		6,388,997	05/2002	Scott			
		6,396,623	05/2002	Park et al.			
		6,452,913	09/2002	Proctor Jr.			
		6,466,800	10/2002	Sydon et al.			
		6,483,816	11/2002	Tsunehara et al.			
/ST/	*	6,501,787	12/2002	Odenwalder et al.			
/ST/	*	6,512,751	01/2003	Struhsaker et al.			
		<del>6,522,630</del>	<del>02/2003</del>	<del>Kitada et al.</del>			
		<del>6,532,226</del>	<del>03/2003</del>	<del>Lehtinen et al.</del>			

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. TAN-2-1495.01US	SERIAL NO. 09/778,474
	APPLICANT Nelson et al.	
	FILING DATE February 7, 2001	GROUP <del>2619</del> 2419

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,545,994	04/2003	Nelson Jr. et al.			
		6,567,391	05/2003	Moon			
		6,570,865	05/2003	Masui et al.			
		6,574,211	06/2003	Padovani et al.			
		6,647,000	11/2003	Persson et al.			
		6,717,916	04/2004	Ahn et al.			
		6,724,740	04/2004	Choi et al.			
		6,735,188	05/2004	Becker et al.			
		6,804,219	10/2004	Koo et al.			
/ST/	*	6,807,221	10/2004	Kim et al.			
/ST/	*	6,934,319	08/2005	Subramanian			
/ST/	*	7,079,523	07/2006	Nelson Jr. et al.			
		2001/0030990	10/2001	Rouphael et al.			
		2001/0033558	10/2001	Matsuki			
		2001/0036200	11/2001	Nelson et al.			
		2002/0080024	06/2002	Nelson et al.			
/ST/	*	2002/0141478	10/2002	Ozluturk et al.			
		2004/0047328	03/2004	Proctor et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		0 773 636	05/1997	EP				
		0 910 176	04/1999	EP				
		1 018 809	12/2000	EP				
		2 326 564	12/1998	GB				
		97/46041	04/1997	WO				

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1495.01US</p>	<p>SERIAL NO. 09/778,474</p>
	<p>APPLICANT Nelson et al.</p>	
	<p>FILING DATE February 7, 2001</p>	<p>GROUP <del>2619</del> 2419</p>

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		99/14869	03/1999	WO				
		99/31811	06/1999	WO				
		99/52306	10/1999	WO				
		99/63682	12/1999	WO				

## OTHER DOCUMENTS

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		HEINE, GUNNAR, "The Air-Interface of GSM," <u>GSM Networks: Protocols, Terminology and Implementation</u> , (MA: Artech House, Inc.), 1999, Chapter 7, pp. 89-100.
		OVESJÖ, FREDRIK, "UTRA Physical Layer Description FDD Parts," European Telecommunication Standard, SMG2 UMTS Physical Layer Expert Group, XP002141421, v 0.4, June 25 1998, pp. 1-41.
		YANG, SAMUEL C., "Principles of Code Division Multiple Access," In CDMA RF System Engineering, (MA: Artech House, Inc.), 1998, Chapter 4, pp 75-103.

1 US 5,103,459 corresponds to KR 0134390.

<p>EXAMINER /Saba Tsegaye/</p>	<p>DATE CONSIDERED (11/07/2008)</p>
------------------------------------	---

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.